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*W Balloon, Gnd*

*ED 139*



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Balloon-Borne Precision  
Positioning System

1 December 1958

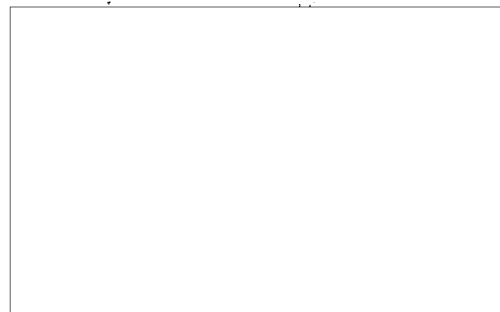
Prepared For



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Submitted by:

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Approved by:

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Contract and Sales  
Manager

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I. Introduction

This proposal results from recent discussions with a representative of [REDACTED]

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[REDACTED] It is desired

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to design, develop and test a balloon system capable of carrying out a precise positioning problem, as described in the pre-proposal conference. [REDACTED]

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[REDACTED] proposes to carry out this work on a cost-plus-a-fixed-fee basis under our existing Contract

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[REDACTED] or on a new contract. The sections

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which follow will describe the method of attack which is proposed, and will include an estimate of the costs to be incurred.

II. Program Proposed

Four distinct problem areas are envisioned as comprising the entire task. They are:

1. Development of a Suitable Balloon Carrier System.

This will be a captive balloon, together with the necessary launching equipment, and control devices.

The system design must be such that the proper flight characteristics will be provided.

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2. Development of a Suitable Balloon Positioning System.

A means must be provided for precisely positioning the balloon vehicle in two dimensions at distances and under conditions indicated in the pre-proposal conference. This phase of the project will require the design and test of suitable sensing and control instrumentation, plus an appropriate means of communicating this information to the launching crew.

3. Development of a Payload Positioning System.

It will be necessary to position the payload vertically with respect to the balloon, and probably to provide additional positioning information. Here again sensing and communication and control problems are involved.

4. Provision of a Payload Release System.

This should be a relatively simple instrumental problem using existing techniques and equipment.

A number of repeated successful demonstrations of the entire system should be made including the actual payload release. Such demonstrations should be made under full field conditions.

It is expected that the development and test of this system will require at least four calendar months, and

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possibly six. Although a successful solution to this problem is fully anticipated, it is also recognized that this will not be a program of straight engineering development - there is sufficient complexity to the system as envisioned that considerable ingenuity and research may be required in the successful conduct of the project.

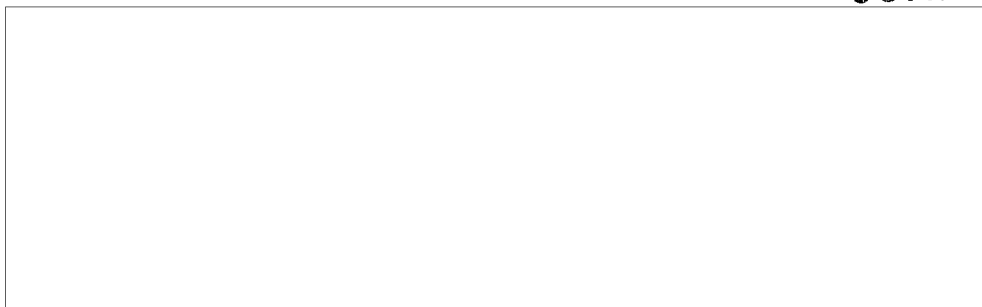
III. Cost Estimates

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Total Cost

\$22,713.51

It should be noted that the overhead rate used is that  
which was last approved by the 

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Any changes in approved overhead rates which occur during  
the contract period would be reflected in a change in the  
project cost.



warrants that no person or selling

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agency has been employed or retained to solicit or secure  
this contract upon an agreement or understanding for a  
commission, percentage, brokerage, or contingent fee,  
excepting bona fide employees or bona fide established  
commercial or selling agencies maintained by the contractor  
for the purpose of securing business.

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